

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: HESS

In re Application of:)	
RAUL HESS)	
Appl. No.: 10/572,755)	
Filed: March 20, 2006)	Confirmation No.: 9551
For: METHOD FOR MANIPULATING A THREE- DIMENSIONAL SURFACE)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the instant specification, in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/010724 and in a German Office Action issued by the German Patent Office with regard to the corresponding German patent application No. 103 45 081.5, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:
The undersigned hereby states:
 - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.
- ☐ The fee of \$180.00 set forth in 1.17(p).

☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

German Offenlegungsschrift DE 2 111 628 describes engraving of relief printing cylinders using electrically produced and controlled energy beams, by scanning an original to produce electrical signals which are converted to control signals for an electron beam so as to cause this to produce the corresponding pattern as a point screen on the printing cylinder surface.

German Offenlegungsschrift DE 43 26 874 A1 describes the engraving of a pattern into the surface of a work piece by a laser beam which is directed onto the surface and controlled in its intensity in a location-dependent manner in dependence on the pattern, one surface area of a design pattern is first scanned optically or mechanically and the surface information thus obtained is converted into electrical control signals. These signals control the laser beam in a surface area which corresponding to the surface area of the design pattern. Different patterns, also irregular ones as desired can be engraved rapidly and easily by changing the design pattern. The scanning of the design pattern can be carried out finely and with high resolution, so that the engraving also has a correspondingly high resolution.

German Offenlegungsschrift DE 197 30 887 A1 describes a process for producing and applying complex pictures and objects (eg photographs, video pictures etc) onto food products such as meat, pastry, fish, cheese etc as well as on products produced by the soap industry, comprises using a carbon dioxide laser writing unit. The latter is used according to the scan-raster principle.

German Patent No. DE 42 09 933 C2 describes a partial surface modification of metallic or non-metallic bodies carried out using a Q-switched continuous wave Nd:YAG laser having optionally a beam expander in the beam path, a beam deflector with a computer-controlled rotary deflection mirror, and a plane field objective for focussing the laser beam, the laser being moved over the surface along one or more reference lines present by the computer. The laser beam is moved within an outline (U1, U2) delimiting the surface portion (A) to be modified, along reference lines forming the grid lines (R1, R2, R3) of a grid field (N) and then the entire grid field (N) is shifted at least once by a certain amount, while maintaining the relative position of the outline (U1, U2) and the entire surface portion (A) is re-scanned by the laser beam along the grid lines (R1, R2, R3). During each scan, the operating time and the energy content level of the laser pulses are limited so that material evaporation is effected with minimal plasma formation.

German Offenlegungsschrift DE 100 32 981 A1 describes a process for material processing comprises guiding a laser beam over a section (13) of a surface (12) of a workpiece to be treated and moving the workpiece to bring a neighboring section (14) of the workpiece into the processing field of the laser. The laser beam is guided in traces (20) over the field. An overlapping region (21) is formed between neighboring sections (13-18) of the workpiece and processing is assigned to the sections so that the traces interact in the overlapping region.

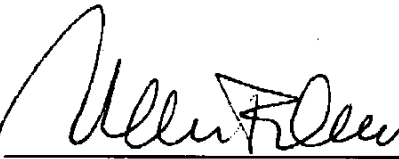
German Offenlegungsschrift DE 39 39 866 A1 describes a laser engraving device using a laser light source (8) and a controlled beam deflector (5, 6) which

allows the laser beam to be deflected onto a focussing mirror (3) in dependence on the characters to be engraved. The focussing mirror (3) comprises a rotationally symmetrical annular mirror or mirror section, with a current mirror surface (4) in the plane containing the axes of symmetry (16). While engraving the work piece need not be moved relative to the laser.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

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Form PTO-1449U.S. Department of Commerce
Patent and Trademark Office**INFORMATION DISCLOSURE CITATION**

Attorney's Docket No. HESS	Applicant RAUL HESS	Appl. No. 10/572,755
Filing Date March 20, 2006	Group	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate
	6,337,749	01-08-2002	Härtel et al.			
	5,378,512	01-03-1995	Van Wyk			
	6,300,595	10-09-2001	Williams			
	6,407,381	06-18-2002	Williams			
	5,519,821	05-21-1996	Schauer et al.			
	5,621,827	04-15-1997	Uchiyama et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
	DE 101 16 672 A1	10-18-2001	Germany			no
	DE 2 111 628 A1	09-14-1972	Germany			no
	DE 197 30 887 A1	01-21-1999	Germany			no
	DE 100 32 981 A1	01-24-2002	Germany			no
	DE 43 26 874 A1	02-16-1995	Germany			yes
	DE 39 39 866 A1	06-06-1991	Germany			no
	DE 42 09 933 C2	09-30-1993	Germany			no

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Brochure of company Jens Scheel – Sondermaschinen, Itzehoe, 1986, Laser-Automat; Engraving automat

Examiner:**Date considered:**

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B23K26/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 101 16 672 A (JÜRGENSEN, HEINRICH) 18 October 2001 (2001-10-18) cited in the application the whole document	1
A	US 6 337 749 B1 (HÄRTEL ET AL) 8 January 2002 (2002-01-08) the whole document	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

7 January 2005

Date of mailing of the international search report

14/01/2005

Name and mailing address of the ISA

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Concannon, B

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/010724

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 10116672	A	18-10-2001	DE	10116672 A1	18-10-2001
US 6337749	B1	08-01-2002	DE	19618367 A1	13-11-1997
			JP	10124112 A	15-05-1998